

## Product datasheet for **RN201784**

### **Tubb3 (NM\_139254) Rat Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tubb3 (NM_139254) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tubb3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN201784 representing NM_139254 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGGGAGATCGTGCACATCCAGGCCGGCCAGTGC GGCAACCAGATAGGGGCCAAGTTCTGGGAGGTCA  
TCAGTGACGAGCATGGCATAGACCCAGCGGCAACTATGTGGGGACTCGGACCTGCAGCTGGAACGCAT  
CAGTGTCTACTACAATGAGGCCTCCTCTCACAAGTATGTGCCAGAGCCATTCTGGTGGACCTGGAGCCT  
GGAACCATGGACAGCGTTTCGGTCTGGGGCCTTTGGACACCTATTCAGGCCTGACAACCTTTATCTTCGGTC  
AGAGTGGTGCTGGCAACAACCTGGGCCAAAGGGCACTATACAGAGGGCGCCGAGCTGGTGGACTCAGTCTCT  
GGATGTCGTGAGGAAAGAATGTGAGAATTGTGACTGCCTGCAGGGCTTCCAGCTCACTCACTCACTGGGT  
GGGGGCACGGGCTCAGGCATGGGCACACTGCTCATCAGCAAAGTGC GTGAGGAGTACCCTGACCGCATCA  
TGAACACCTTCAGCGTGGTGCCCTCACCCAAAGTGT CAGACACCGTGGTAGAGCCCTACAACGCCACCT  
GTCCATCCACCAGCTAGTGGAGAACACGGATGAGACCTACTGCATCGACAATGAAGCCCTCTACGACATC  
TGCTTCCGCACCCTCAAGCTGGCTACCCACCTACGGGGACCTCAACCACCTTGCTGTCTGCTACCATGA  
GCGGAGTCACCACCTCCCTTCGATTCCCTGGTCAGCTCAATGCCGACCTCCGCAAGCTAGCTGTCAACAT  
GGTGCCCTTCCCCCGCTTGCATTTCTTCATGCCCGGCTTTGCCCCACTAACAGCCCGGGGAGCCAAACAG  
TACCGTGCCCTGACGGTGCCTGAGCTCACCCAGCAGATGTTCCGACGCCAAGAACATGATGGCTGCCTGTG  
ACCCACGCCACGGCCGCTACCTGACCGTGGCCACCGTCTTCCGTGGGCGCATGTCCATGAAGGAGGTGGA  
TGAGCAGATGCTGGCCATT CAGAGTAAGAACAGTAGTTACTTCGTGGAGTGGATCCCAACAACGTCAAG  
GTAGCGGTGTGTGACATCCC GCCCGAGGGCTCAAGATGTCGTCCACCTTCATCGGCAACAGCACGGCCA  
TCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTACGGCCATGTTCCGGCGCAAGGCCTTCTCCACTG  
GTACACGGGCGAAGGCATGGATGAGATGGAGTTACCCAGGCGGAGAGCAACATGAACGACCTGGTGTCT  
GAGTACCAGCAGTACCAGGACCCACTGCCGAGGAGGAGGGGAGATGTATGAAGATGACGACGAGGAGT  
CGGAAGCCAGGGGCCAAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_139254
<b>Insert Size:</b>	1353 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_139254.2</a> , <a href="#">NP_640347.2</a>
<b>RefSeq Size:</b>	1796 bp
<b>RefSeq ORF:</b>	1353 bp
<b>Locus ID:</b>	246118
<b>UniProt ID:</b>	<a href="#">Q4QRB4</a>
<b>Cytogenetics:</b>	19q12
<b>Gene Summary:</b>	Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain. TUBB3 plays a critical role in proper axon guidance and maintenance (By similarity). Binding of NTN1/Netrin-1 to its receptor UNC5C might cause dissociation of UNC5C from polymerized TUBB3 in microtubules and thereby lead to increased microtubule dynamics and axon repulsion (By similarity). Plays a role in dorsal root ganglion axon projection towards the spinal cord (By similarity).[UniProtKB/Swiss-Prot Function]